



## Worksheets &amp; Exams

3. ★ ..... is considered a primary light color.  
 a. Yellow                      b. Red                      c. Magenta                      d. Cyan
4. The relation between cat and rat is .....  
 a. predation                      b. mutualism                      c. commensalism                      d. saprophytism

## B. Give a reason for each of the following:

1. Water is considered a common solvent.  
 .....

2. ★ Some materials are called non-magnetic materials.  
 .....

## 2 Cairo – Experimental L . S.

## 1 A. Complete the following sentences:

1. ★ The tissue paper is an example of ..... materials, while a piece of rock is an example of ..... materials.
2. ★ The like poles ..... each other, whereas the unlike poles ..... each other.
3. The relationship between nodular bacteria and plants is an example of ..... relationship.
4. Solubility time decreases by ..... the temperature of the solution.

## B. Mention one use for each of the following:

1. Separating funnel  
 .....

2. ★ Compass  
 .....

## 2 A. Write the scientific term for each of the following:

1. ★ The materials that are not attracted to the magnet. (.....)
2. ★ The space around the magnet in which its magnetic force appears. (.....)
3. It is a food relationship among living organisms in which one living organism devours another one. (.....)
4. It is any natural area including living organisms and nonliving things. (.....)
5. It is the substance which dissolves in a solvent. (.....)

## B. What happens when ...?

1. ★ The blue color is mixed with red color.  
 .....

2. Bacteria completely disappear.  
 .....

### 3 A. Correct the underlined words in the following statements:

1. ★ Light travels in curved lines. (.....)
2. ★ Light rays reflect in different directions in the regular reflection. (.....)
3. ★ Mixing green and blue colors produces red color. (.....)
4. Mushroom is from internal parasites. (.....)
5. We separate between salt and water by magnetic attraction. (.....)

### B. Give a reason for each of the following:

1. The frog changes its color.  
.....
2. ★ A spoon appears broken when you put it in a transparent cup of water.  
.....

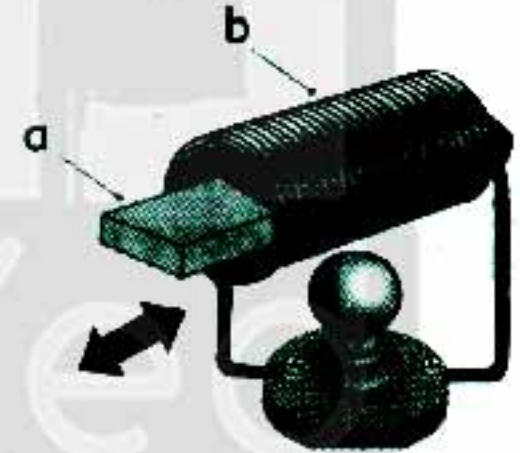
### 4 A. Choose the correct answer:

1. The process of photosynthesis is done by a (producer - decomposer - consumer) living organism.
2. Among the insectivorous plants is (bean - sunflower - drocera).
3. (Mimicry - Commensalism - Camouflage) is the ability of some living organisms to change their color.
4. ★ Milk, concrete and tomato sauce are considered a (mixture - pure substance - solution).

### B. ★ Look at the following figure, then complete:

a. .... b. ....

1. This figure represents .....
2. The apparatus is used to change ..... energy into ..... energy.



### 3 Cairo – Public L . S.

### 1 A. Complete the following sentences:

1. ★ Mixing ..... and ..... colors produces magenta.
2. Solution consists of ..... and .....
3. Among the types of symbiosis are ..... and .....
4. ★ The like poles ....., while the unlike (different) poles .....

### B. Write the scientific term for each of the following:

1. ★ The area in the magnet, where the magnetic force is the most. (.....)
2. The animal which devours another animal. (.....)
3. The substance that contains only one type of particles. (.....)
4. ★ The tool (device) that converts electric energy into magnetic energy. (.....)

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## 2 A. Choose the correct answer:

- ★ The yellow glass (absorbs - reflects - transmits) the yellow color.
- Bee protects itself against predation through (camouflage - mimicry - parasitism).
- Among the living components of the ecosystem is (plant - soil - water).
- ★ The image in narrow holes is small and (upright - inverted - refracted).

## B. Correct the underlined words in the following statements:

- ★ We use dynamo in making electric bell. (.....)
- Sugar in a sugary solution is the solvent. (.....)
- In parasitism the living organism which is hurt is called parasite. (.....)
- ★ Opaque material allows most light to pass through. (.....)

## 3 A. Put (✓) in front of the correct statements and (X) in front of the false ones:

- ★ Compass is used to locate the main four directions. ( )
- ★ The area around the magnet, where its effect appears, is the magnetic field. ( )
- ★ Light travels in curved lines. ( )
- Desert is a large ecosystem. ( )
- When the temperature increases, the solubility time decreases. ( )
- ★ Electric current has a magnetic effect. ( )

## B. Give a reason for each of the following:

- ★ We increase the number of batteries in making electromagnet.
- Formation of shadow.

## 4 A. Choose from column (B) what suits in column (A):

(A)	(B)
1. Among the methods of making mixtures is .....	a. non-magnetic.
2. ★ Materials that are not attracted to magnet are called .....	b. using a magnet.
3. ★ Materials attracted to magnet are called .....	c. shaking.
4. Among the methods of separating mixtures is .....	d. magnetic.
1. .... 2. .... 3. .... 4. ....	

## B. Use the following words to fill the spaces:

predation - parasitism - saprophytism - mutualism

- It is a temporary relationship that ends by devouring the prey or a part of it .....
- It is a type of relationship from which both living organisms get benefit .....
- It is the relationship between two different kinds of living organisms where one benefits and the other is harmed .....
- The relation between bread and bread mold fungus is called .....

## 4 Cairo – Maadi Educational Directorate

## 1 Complete the following sentences:

- ★ ..... and ..... are examples of transparent materials.
- ★ The primary color lights are red, ..... and .....
- ★ Among the devices which use the electromagnet are ..... and .....
- Solid and liquid materials can be mixed by ..... or .....

## 2 A. Choose the correct answer:

- ★ The pen seems broken in a glass filled with water due to (light reflection - light refraction - light separation).
- (Evaporation - Filtration - Separating funnel) is used to separate a mixture of oil and water.
- Among the examples of pure substances is (distilled water - concrete - milk).
- The food relationship between nodular bacteria and bean plant is an example of (predation - mutualism - parasitism).

## B. What happens when ...?

- ★ Mixing the red light with the blue light.
- ★ The north pole of a magnet comes nearer to the south pole of another magnet.

## 3 A. Write the scientific term for each of the following:

- ★ The space around the magnet in which the magnetic force appears. (.....)
- Any natural area including living organisms and non-living things. (.....)
- ★ The device that changes the mechanical energy into electric energy. (.....)
- ★ The darkened area which is formed as a result of falling of light on an opaque object. (.....)

## B. Give a reason for each of the following:

- ★ Copper and aluminum are among the nonmagnetic materials.
- Cuttlefish ejects black fluid in water when it is attacked by enemies.

## 4 A. Put (✓) in front of the right sentence and (X) in front of the wrong sentence:

- ★ Light travels in curved lines. ( )
- Water is called a common solvent. ( )
- ★ The electromagnet loses its magnetic force by cutting the electric current. ( )
- Dinosaur is an example of the extinct animals due to changing of the natural conditions in the environment. ( )
- Stirring decreases the solubility speed. ( )

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## B. Match from column (A) what suits in column (B):

(A)	(B)
1. Filaria worms (.....)	a. convey smallpox
2. Mosquitoes (.....)	b. cause elephantiasis
3. Fleas (.....)	c. cause malaria
	d. cause bread mould

## 5 Cairo - Science Inspectorate

## 1 A. Complete the following:

- ★ Light can pass easily through .....
- ★ The like poles ..... while the unlike poles .....
- ★ Prism separates white light into ..... colors .
- Mixtures can be formed by shaking or .....

## B. Put (✓) or (X) :

- Ascaris worm causes anemia. ( )
- Salty solution can be separated by using a magnet. ( )
- ★ Light is a form of energy. ( )

## 2 A. Write the scientific term for each of the following:

- ★ The bouncing of light rays. (.....)
- ★ The two ends of the magnet. (.....)
- The natural area that contains living and non-living things. (.....)
- ★ A set used for locating the four geographical directions. (.....)
- A darkened area formed when light falls on an opaque object. (.....)

## B. Give a reason for each of the following:

- ★ Aluminum is a nonmagnetic material.
- ★ The green color is a primary color.

## 3 A. Choose the correct answer:

- ★ Coil of dynamo is made of (plastic - copper - wood).
- ★ Light can't pass through (glass - transparent - opaque) materials.
- ★ (Iron - Wood - Air) is a magnetic material.
- ★ (White - Black - Red) opaque bodies reflect all light colors.
- In salty solution, salt is a (solvent - solute - ray).

## B. Give one example for:

- A predator.
- A solid-liquid mixture.

#### 4 A. Correct the underlined words in the following statements:

1. ★ Cyan and magenta are primary colors. (.....)
2. Solubility speed decreases by stirring. (.....)
3. Air is a pure substance. (.....)
4. ★ Red + green + blue = cyan light. (.....)
5. Evaporation is used to separate sand from water. (.....)

#### B. Cross the odd word out:

1. ★ iron - nickel - paper (.....)
2. ★ glass - air - carton (.....)
3. fungi - butterfly - bacteria (.....)

#### 6 Cairo - East Nasr City Edu. Zone - El-Manhal Lang. School

#### 1 A. Choose the correct answer:

1. ★ The different magnetic poles ..... each other.  
a. attract                      b. repel                      c. like
2. ★ The electromagnet changes electric energy into ..... energy.  
a. kinetic                      b. magnetic                      c. thermal
3. The relationship between wolf and sheep is .....  
a. mutualism                      b. parasitism                      c. predation
4. To separate a mixture of sand and iron filings use .....  
a. filtration                      b. magnetic attraction                      c. shaking

#### B. Put (✓) or (X):

1. ★ Electric bell contains dynamo. ( )
2. Solubility speed is not affected by stirring. ( )
3. Bacterium is a decomposer. ( )
4. ★ Light travels in straight lines. ( )

#### 2 A. Write the scientific term for each of the following:

1. The relation between two organisms that benefit from each other. (.....)
2. ★ The space around the magnet in which the magnetic force appears. (.....)
3. ★ The materials behind which you can see objects clearly. (.....)
4. A set used to separate the oil form oil-water mixture. (.....)
5. ★ The materials which are attracted to the magnet. (.....)
6. The natural area including living organisms and nonliving organisms. (.....)

#### B. Give a reason for each of the following:

1. ★ The red apple is seen red.
2. Milk is a mixture.

## Worksheets &amp; Exams

## 3 Complete the following sentences:

1. A mixture can be formed by ..... and .....
2. ★ ..... , ..... and magenta are secondary light colors.
3. ★ As the light falls on the green grass, it absorbs ..... colors except .....
4. ★ Dynamo changes from ..... energy to ..... energy.
5. ★ Red light + ..... + ..... forms white color.
6. .... is one of the animal predators, while ..... is one of the insectivorous plants.
7. The solution consists of ..... and .....

## 4 A. Correct the underlined words in the following statements:

1. ★ The magnet is most powerful at the middle. (.....)
2. Chameleon hides from its enemies by saprophytism. (.....)
3. ★ The opaque materials allow some of light to pass through them. (.....)
4. Bilharzia and liver worm are external parasites. (.....)

## B. ★ Choose from column (B) what suits in column (A):

(A)	(B)
1. Spectrum colors.	a. The relation between decomposers and dead bodies.
2. Saprophytism.	b. A transparent material.
3. Water	c. It causes malaria.
4. Mosquito	d. The seven colors which the sunlight is made up of.

## 7 Giza - North Giza Educational Directorate

## 1 A. Complete the following sentences:

1. ★ Light travels in ..... lines.
2. ★ ..... is the space around the magnet where its magnetic force appears.
3. .... is the solvent in chocolate milk solution.
4. ★ Electromagnet changes ..... energy into ..... energy.
5. ★ ..... is the darkened area formed as a result of light falling on an opaque object.
6. Bilharzia worms are ..... parasites.

## B. ★ What is the importance of magnetic compass?

## 2 A. Correct the underlined words in the following statements:

1. ★ Like magnetic poles attract each other. (.....)
2. The relation between lion and deer is symbiosis. (.....)
3. ★ Wood and carton are transparent materials. (.....)
4. ★ Spectrum colors start with orange. (.....)



**B. Mention the kind of food relationship between:**

1. Nodular bacteria and bean plant.
2. Mosquito and human.

**3 A. Give a reason for each of the following:**

1. Air is a mixture.
2. ★ Iron is a magnetic material.

**B. Choose the correct answer:**

1. ★ (Glass prism - Magnet - Mirror) is a device that separates white light into seven spectrum colors.
2. ★ Red, green and blue are (secondary - primary - complementary) light colors.
3. Green plants are (producers - consumers - decomposers).
4. ★ (Iron - Wood - Plastic) is a magnetic material.

**4 A. Write the scientific term for each of the following:**

1. ★ The materials that allow some light to pass through. (.....)
2. The process of heating a salty solution to separate salt from water. (.....)
3. ★ A beautiful phenomenon that appears in the sky after rains. (.....)
4. The animal which devours another animal. (.....)

**B. How can you separate the following mixtures...?**

1. A mixture of iron filings and sand.
2. A mixture of oil and water.

**8 Qalubia - Science Inspectorate****1 A. Choose the correct answer:**

1. ★ Light transmits in (curved - broken - straight - zigzag) lines.
2. ★ The materials which let most light pass through are called (transparent - translucent - semi-transparent - opaque).
3. ★ All the following colored lights are primary except (yellow - green - red - blue).
4. Mosquitoes cause (elephantiasis - smallpox - malaria - bilharziasis) disease to man.
5. Without the saprophytic organisms earth's surface would be covered with (plants - living organisms - animals - dead organisms).
6. ★ When you look at a red apple from a yellow glass sheet, the apple seems (black - red - blue - yellow).

**B. Give a reason for each of the following:**

1. ★ A spoon appears broken when you put it in a transparent cup of water?
2. Air is a mixture.

تابع جديد زاكروولي على  
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تليجرام

## Worksheets &amp; Exams

## 2 A. Complete the following sentences:

- ★ Like magnetic poles ..... whereas unlike poles .....
- Methods of formation of a mixture are shaking, ..... and .....
- ★ The electromagnet converts ..... energy into ..... energy.
- ★ Red light + ..... + ..... forms white light.
- Solution is a mixture that consists of ..... and .....
- Types of food relationships between living organisms include predation, ..... and .....

## B. Mention one use for each of the following:

- ★ Electric generator (dynamo).
- ★ Electromagnet.

## 3 A. Write the scientific term for each of the following:

- ★ A darkened area formed behind an object once light falls on it. (.....)
- ★ The space around a magnet in which the magnetic force appears. (.....)
- A natural area including living organisms and non-living things. (.....)
- A food relationship in which an organism devours the other. (.....)
- ★ The materials that get attracted to the magnet. (.....)
- ★ The color produced by mixing red and green colors. (.....)

## B. Choose from column (B) what suits in column (A):

(A)	(B)
1. Sand and water.	a. get separated by a magnet.
2. Oil and water.	b. get separated by evaporation.
3. Paper clips and sand.	c. get separated by separating funnel.
4. Salt solution.	d. get separated by filtration.

## 4 A. Correct the underlined words in the following statements:

- Milk is a pure substance. (.....)
- Oil is a common solvent. (.....)
- ★ When the light falls on a mirror, it gets refracted. (.....)
- Ascaris worm is an external parasite. (.....)
- ★ Magnetic force is concentrated at the middle of the magnet. (.....)
- Salty solution is a heterogeneous mixture. (.....)

## B. Choose the odd word out, then mention the scientific term for the others:

- (Flaria worm - Mosquito - Liver worm - Bilharzia worm) (.....)  
a. Odd word: ..... b. Scientific term: .....
- (Chameleon - Butterfly - Cuttlefish - Drosera) (.....)  
a. Odd word: ..... b. Scientific term: .....

## 9 Menofia - Shebeen El-Koom Directorate

## 1 Complete the following sentences:

1. ★ We can see ..... in the sky while the rain falls.
2. ★ The basic idea of the electric generator is the changing of ..... energy into ..... energy.
3. ★ The image formed by the narrow holes is ..... and .....
4. .... is used to separate a mixture of sand and iron filings.
5. .... and ..... are among the ways of self-defence against predation in living organisms.

## 2 A. Write the scientific term for each of the following:

1. ★ The materials that are attracted to the magnet. (.....)
2. It contains more than one type of particles. (.....)
3. The devoured animal in the predation relationship. (.....)
4. ★ The process of formation of a solution. (.....)
5. The natural area including living organisms and nonliving things. (.....)
6. ★ A space around the magnet in which the magnetic force appears. (.....)

## B. What happens when...?

1. ★ You look at a red apple through a green glass sheet.
2. ★ You place your hand between a light source and the wall.

## 3 A. Choose the correct answer:

1. ★ Mixing red and green lights produces (yellow - cyan - magenta) light.
2. The solute in the mixture of chocolate and milk is (water - milk - chocolate).
3. ★ The speed of light in air is (faster than - slower than - equal to) that in water.
4. ★ When the compass is put beside a wire carrying electric current, (no deflection occurs - the needle deflects - no correct answer) .

## B. Choose from column (B) what suits in column (A):

(A)	(B)
1. Dinosaurs	a. decompose food remains.
2. Fungi	b. get shelter and food from sponge.
3. Tapeworms.	c. are an example of extinct animals.
4. Tiny aquatic living organisms	d. share its digested food with the host.

1. .... 2. .... 3. .... 4. ....

## Worksheets &amp; Exams

## 4 A. Give a reason for each of the following:

- ★ Wood is an opaque material.
- ★ The compass is an important tool for travellers.

## B. Correct the underlined words in the following statements:

- Some types of mosquitoes infect man with smallpox disease. (.....)
- Solubility speed decreases by raising the temperature. (.....)
- ★ The unlike magnetic poles repel each other. (.....)
- Nodular bacteria fix oxygen in an inorganic form. (.....)
- ★ White objects absorb all the lights that fall on them. (.....)

## 10 Dakahlia - Dakahila Educational Directorate

## 1 A. Choose the correct answer:

- The solute in the mixture of chocolate and milk is .....  
a. milk                                      b. water                                      c. chocolate
- ★ The dynamo generates ..... energy from mechanical energy.  
a. electrical                                      b. light                                      c. thermal
- ..... ejects a black color fluid in the surrounding water when attacked by its enemies.  
a. Frog                                      b. Sepia                                      c. Butterfly
- ★ Strawberry fruit seems to be in red color because it reflects only the ..... color.  
a. green                                      b. red and green                                      c. red

## B. Give a reason for each of the following.

- ★ Rainbow can be seen after heavy rain-falling.
- Green plants can make their own food.
- The parasite doesn't kill its host.
- Solution is a type of mixture.

## 2 A. Put (✓) or (X) and correct the wrong ones:

- ★ The picture formed in the plan mirror is inverted. ( )
- ★ Object's shadow is formed because light travels in curved lines. ( )
- ★ Transparent objects have the same color of the light that doesn't travel through them. ( )
- Vegetables salad is considered a homogenous mixture. ( )
- Mixing red, green and blue colors produces white color. ( )

## B. Write the scientific term for each of the following:

- A food relationship between two organisms, one benefits while the other neither benefits nor gets harmed. (.....)

2. ★ The colors we get by mixing two colors of the primary light colors. (.....)
3. ★ The tool that is used for locating the main four geographic directions. (.....)
4. Dissolving carbon dioxide gas in a sugary solution. (.....)

### 3 A. Complete the following sentences:

1. Increasing ..... reduces solubility time.
2. ★ The prism separates sunlight into .....
3. ★ Red light + green light + blue light = .....
4. Fungi are considered ..... living organisms.

### B. Answer the following questions:

1. ★ How can electricity make our life different? Write a paragraph.
2. How the following mixture can be separated:
  - a. paper clips and flour
  - b. chalk and water solution
  - c. sugar solution

### 4 A. What is meant by...? 1. Ecosystem. 2. Environmental balance.

### B. Show the type of food relationship illustrated in the following:



### 11 Behera - Kafr El-Dawar E. Zone - El Safwa Private School

### 1 Complete the following sentences:

1. ★ Opaque objects ..... light, while transparent objects ..... light.
2. .... is one of the internal parasites, while ..... is one of the external parasites.
3. .... and ..... are among the methods of forming mixture.
4. Predation process causes ..... number of prey populations.
5. .... is a pure substance.

### 2 A. Choose the correct answer:

1. ★ In dynamo kinetic energy changes to (electric - light - magnetic - sound) energy.
2. ★ All the following are transparent materials except (carton - glass - water - air).
3. ★ By mixing all spectrum colors (magenta - black - white - blue) color is formed.
4. ★ Spoon seems broken in a cup containing water due to (light reflection - light splitting - light refraction - the fact that light travels in a straight line).

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B. ★ Compare between the following:

	Magnetic material	Nonmagnetic material
Definition	..... .....	..... .....
Example	.....	.....

3 A. Write the scientific term for each of the following:

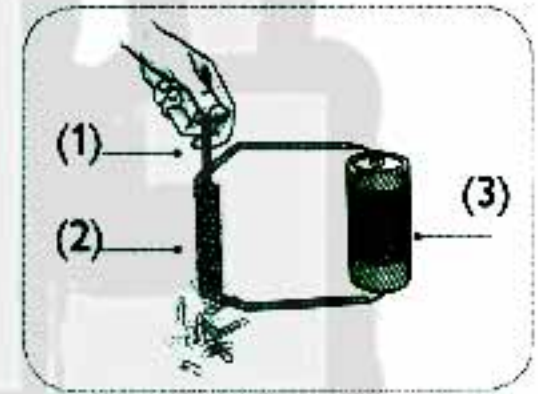
- ★ Returning of light rays when they fall on a plane mirror. (.....)
- ★ Space surrounding magnet and magnetic force appears on it. (.....)
- The substances that dissolve in a solvent. (.....)
- The natural area including living organisms and nonliving things. (.....)

B. Give a reason for each of the following:

- ★ Red apple appears black through blue glass.
- Some living organisms can make mimicry or camouflage.

4 A. ★ Look at the opposite figure, then answer:

- The figure represents ..... :
- (1) points to .....
  - (2) points to .....
  - (3) points to .....



- What happens if: you approximate some iron filings to the figure?

B. Write the name of tools used in:

- ★ Knowing the four directions. (.....)
- Separating a mixture of oil and water. (.....)

## 12 Suez - Directorate of Education

1 A. Complete the following sentences:

- ★ The material which cannot allow light to transmit through is called .....
- ★ The set that changes the mechanical energy into electric energy is known as .....
- ★ Red light + green light + blue light = .....
- ★ The magnet pole that always refers to north direction is called .....
- Increasing temperature ..... solubility time.
- ..... is one of the extinct organisms due to the changing in the natural conditions.

**B. Mention the name of the tool that can be used in each of the following cases:**

1. Separating a mixture of oil and water. (.....)
2. Separating light into seven colors. (.....)

**2 A. Write the scientific term for each of the following:**

1. The organisms which help to get rid of dead organisms. (.....)
2. ★ The colors we get by mixing two colors of the primary light. (.....)
3. ★ A tool that is used for locating the main four geographic directions. (.....)
4. A process that needs the presence of solvent and solute. (.....)
5. The food relationship between two organisms that get benefit from each other. (.....)
6. The natural area including living organisms and non-living things. (.....)

**\* B. Compare between the following:**

	Magnetic material	Nonmagnetic material
Definition	..... .....	..... .....
Example	.....	.....

**3 A. Choose the correct answer:**

1. ★ The dynamo is fixed in the bicycle (seat - pedal - tire).
2. ★ The picture formed through a narrow hole is (upright minimized - inverted minimized - inverted magnified).
3. ★ Which of the following is considered a secondary color? (Yellow - Green - Blue).
4. ★ We can see things as a result of (reflection - refraction - absorption) of rays.
5. The animal that devours another animal is called (parasite - host - predator).
6. An example of decomposers is (fungus - rabbit - plant).

**B. What happens in each of the following...?**

1. ★ When a magnet is hanged freely to move.
2. Cutting the trees down.

**4 A. Put (✓) or (X):**

1. ★ Filtration is used to separate soluble solid materials. ( )
2. Some living organisms can change their color to simulate the colors of the environment where they live to hide from their enemies. ( )
3. The balance of ecosystem occurs due to interference of man. ( )

**B. Give a reason:**

1. ★ The moon cannot be considered a source of light.
2. Air is a mixture.

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## C. Choose from column (B) what suits in column (A):

(A)	(B)
1. Ascaris worm	a. can be separated by using a magnet
2. Pure water	b. is (are) internally parasitism
3. Iron filings and sand mixture	c. cause (s) anemia
4. A food relationship between man and liver worm	d. is (are) a pure substance
	e. is (are) external parasitism

1. .... 2. .... 3. .... 4. ....

## 13 Luxor - El Salam Language School

## 1 Choose the correct answer:

- ★ The coil of the dynamo is made up of (copper - iron - carbon).
- (Distilled water - Milk - Mineral water) is an example of pure substance.
- The substance that dissolves in solvent is (alcohol - water - salt).
- ★ The (red - blue - yellow) is from secondary lights.
- ★ The light travels in (curved - straight - broken) lines.
- ★ The (gold - steel - copper) is a magnetic material.
- Jawless lamprey and fish relationship is (predation - saprophytism - parasitism).
- Mosquitoes cause (anemia - malaria - smallpox disease).

## 2 A. Write the scientific term:

- ★ The material that doesn't allow light to pass through. (.....)
- Living organisms fed by decomposing organic wastes or dead bodies. (.....)
- ★ Reflection of light in one direction. (.....)
- The balance among the components of the ecosystem. (.....)
- ★ The space around the magnet where the magnetic force appears. (.....)

## B. Give a reason for each of the following:

- ★ Formation of image through narrow holes.
- Water is a common solvent.
- Relation between nodular bacteria and bean plants is mutualism.

## 3 A. Complete the following statements:

- Solid materials can be mixed by ..... and .....
- Relation between dionaea and insects is ..... relationship.
- ★ Electromagnet changes ..... energy into ..... energy.
- ..... is an example of a gas-liquid mixture.





## Worksheets &amp; Exams

4. ★ When the white light strikes a red rose, it reflects the white color. ( )
5. Ecosystem is composed of nonliving things like water and living organisms like plants. ( )

## B. ★ Give a reason for each of the following:

- Air is considered a mixture.
- The moon cannot be considered a source of light.

## 3 A. Write the scientific term for the following:

- The food relationship between the living organisms which devour other organisms. (.....)
- ★ The darkened area formed as a result of light falling on an opaque object. (.....)
- ★ The space around the magnet in which the effect of magnetic force appears. (.....)
- ★ The light results from mixing red, blue and green colors. (.....)
- ★ Materials through which objects can be seen clearly. (.....)

## B. What would happen in the following cases ... ?

- Bacteria completely disappear.
- ★ Passing of electric current in a wire wrapped around a rod of soft iron?

## 4 A. Choose from column (B) what suits in column (A):

(A)	(B)
1. ★ Refraction.	a. separate(s) the solid substances that dissolve in solution.
2. ★ Yellow light.	b. don't/doesn't mix.
3. Evaporation.	c. is(are) autotrophic.
4. Water and oil.	d. occur(s) when light transmits through two transparent media.
5. Green plants.	e. result(s) from mixing red and green lights.

1. .... 2. .... 3. .... 4. .... 5. ....

## B. Mention one difference between:

- ★ Magnetic and nonmagnetic substances.
- ★ Regular and irregular reflecton.

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 مع رياض الاطفال للصف الثالث الاعدادي

هذا العمل خاص بموقع زاكروولي التعليمي ولا يسمح بتداوله على مواقع اخرى

## Exam 3

- 1 1. mixture 2. solid - soluble  
3. electromagnet 4. mixture  
5. saprophytism 6. producer  
7. heterogeneous  
8. environmental balance

- 2 A. 1. sepia. 2. sepia.  
3. external. 4. increase.  
5. guard. 6. magnetic attraction.  
B. Answer by yourself.

- 3 A. 1. camouflage - mimicry  
2. ecosystem  
3. solubility process  
4. external parasite.  
B. 1. (c) 2. (a) 3. (d) 4. (c).

- 4 A. 1. Because it consists of more than one type.  
2. Because it ends by devouring the prey.  
B. 1. The steel gets attracted to the magnet.  
2. Causing disturbance in environmental balance.

## Exam 4

- 1 A. 1. predation 2. predation  
3. separating funnel 4. water  
5. plants - animal  
B. Answer by yourself

- 2 A. 1. salty pans. 2. ecosystem.  
3. solubility process. 4. decomposer.  
B. Answer by yourself.

- 3 A. 1. increases. 2. decomposer.  
3. ocean  
B. 1. Because it consists of more than one type of particles.  
2. Answer by yourself.

- 4 A. 1. solute. 2. (a) and (b).  
3. sepia. 4. ascaris.  
B. 1. (c) 2. (a) 3. (d) 4. (b) 5. (e).

## Exam 5

- 1 A. 1. (X) 2. (X) 3. (✓) 4. (✓) 5. (X)  
B. 1. We can't get rid of dead body.  
2. Making soda water.

- 2 A. 1. different gases. 2. drosera.  
3. constant.  
4. separating funnel.

- B. 1. Because it ends by devouring the prey.  
2. Because it consists of one particle but mineral water consists of more than one type of substances.

- 3 A. 1. solubility process.  
2. parasitism.  
3. ecosystem.  
4. elephantiasis.  
B. Answer by yourself.

- 4 A. 1. proteins  
2. evaporation - filtration  
3. burning forest 4. decomposer  
5. mixture 6. decrease  
7. mixture  
B. Answer by yourself.

## School Exams on the First Term

2016/2017

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## 1 Cairo - Cairo Experimental Edu. Zone.

- 1 A. 1. mimicry - camouflage.  
2. lighting cities - operating factories.  
3. poles.  
B. magnetic field:  
It is the space around a magnet where the effect of the magnetic force appears.

- 2 A. 1. (X) 2. (X) 3. (X) 4. (✓)  
B. 1. sun  
2. shake

- 3 1. mixture.  
2. decomposer.  
3. light refraction.  
4. grinding.

- 4 A. 1. seawater. 2. regularly.  
3. red.  
4. predation.  
B. 1. Because thousands of substances dissolve in it.  
2. Because it doesn't get attracted to the magnet.

## 2 Cairo - Experimental L. S.

- 1 A. 1. semi-transparent - opaque.  
2. repel - attract.  
3. mutualism.  
4. increasing.

- B. 1. To separate heterogeneous liquids such as (oil - water).  
2. To identify the main four directions.

- 2 A. 1. nonmagnetic material.  
2. magnetic field. 3. predation.  
4. ecosystem. 5. solute  
B. 1. The magenta light color is produced.  
2. The earth's surface would be covered with dead bodies.

- 3 A. 1. straight. 2. irregular. 3. cyan.  
4. liver worm. 5. evaporation.  
B. 1. To hide from their enemies.  
2. Due to light refraction.

- 4 A. 1. producer. 2. drosera.  
3. camouflage. 4. mixture.  
B. a. Answer by yourself.  
b. Answer by yourself.  
1. dynamo.  
2. kinetic - electric.

### 3 Cairo - Public L. S.

- 1 A. 1. red - blue.  
2. solute - solvent.  
3. commensalism - mutualism.  
4. repel - attract.  
B. 1. two poles.  
2. predator.  
3. pure substance.  
4. electromagnet.

- 2 A. 1. transmits. 2. mimicry.  
3. plant. 4. inverted.  
B. 1. electromagnet.  
2. solute. 3. host. 4. transparent.

- 3 A. 1. (✓) 2. (✓) 3. (X) 4. (✓)  
5. (✓) 6. (✓)  
B. 1. To increase the force of electromagnet.  
2. Because light travels in straight lines.

- 4 A. 1. (c) 2. (a) 3. (d) 4. (b)  
B. 1. predation. 2. mutualism.  
3. parasitism. 4. saprophytism.

### 4 Cairo - Maadi Educational Directorate.

- 1 1. glass - water. 2. green - blue.  
3. electric bell - mixer. 4. stirring

- 2 A. 1. light refraction.  
2. separating funnel.  
3. distilled water.  
4. mutualism.  
B. 1. Magenta light color is produced.  
2. They will get attracted to each other.

- 3 A. 1. magnetic field. 2. ecosystem.  
3. dynamo. 4. shadow.  
B. 1. Because they don't get attracted to the magnet.  
2. To hide from its enemies.

- 4 A. 1. (X) 2. (✓) 3. (✓) 4. (✓) 5. (X)  
B. 1. (b) 2. (c) 3. (a)

### 5 Cairo - Science Inspectorate.

- 1 A. 1. transparent materials. 2. repel - attract.  
3. seven spectrum colors. 4. grinding.  
B. 1. (✓) 2. (X) 3. (✓)

- 2 A. 1. light reflection. 2. two poles  
3. ecosystem. 4. compass.  
5. shadow.  
B. 1. Because it doesn't get attracted to the magnet.  
2. Because it can't be produced by mixing two colors.

- 3 A. 1. copper. 2. opaque.  
3. iron. 4. white  
5. solute.  
B. 1. lion.  
2. salty solution.

- 4 A. 1. secondary. 2. increase.  
3. mixture. 4. white.  
5. filtration.  
B. 1. paper.  
2. carton.  
3. butterfly.

### 6 Cairo - East Nasr City Edu. Zone - El Manhal Lang. - School.

- 1 A. 1. (a) 2. (b) 3. (c) 4. (b)  
B. 1. (X) 2. (X) 3. (✓) 4. (✓)

- 2 A. 1. mutualism.  
2. magnetic field.  
3. transparent material.  
4. separating funnel.  
5. magnetic material.  
6. ecosystem.  
B. 1. Because it absorbs all colors except red color which it reflects.  
2. Because it consists of more than one type of particles.

- 3 1. stirring - grinding - shaking.  
2. yellow - cyan.  
3. all colors - green.  
4. kinetic - electric.  
5. green - blue.  
6. lion - drosera.  
7. solute - solvent

- 4 A. 1. two poles 2. camouflage  
3. semi-transparent.  
4. internal  
B. A. 1. (d) 2. (a) 3. (b) 4. (c)

### 7 Giza - North Giza Educational Directorate.

- 1 A. 1. straight 2. magnetic field  
3. milk 4. electric - magnetic  
5. shadow 6. internal  
B. It is used to identify the main four directions.

- 2 A. 1. unlike. 2. predation.  
3. opaque. 4. red  
B. 1. mutualism.  
2. parasitism.

- 3 A. 1. Because it consists of more than one type of particles.  
2. Because it gets attracted to the magnet.  
B. 1. glass prism. 2. primary.  
3. producers. 4. iron.

- 4 A. 1. semi-transparent 2. evaporation  
3. rainbow 4. predator.  
B. 1. magnetic attraction.  
2. separating funnel.

### 8 Qalubia - Science Inspectorate.

- 1 A. 1. straight. 2. transparent  
3. yellow. 4. malaria.  
5. dead organisms 6. black.  
B. 1. Due to light refraction.  
2. Because it consists of more than one type of particles.

- 2 A. 1. repel - attract.  
2. stirring - shaking.  
3. electric - magnetic.  
4. green - blue.  
5. solvent - solute.  
6. symbiosis - saprophytism.  
B. 1. lighting the bulb of the bicycle.  
2. used in making electric bell.

- 3 A. 1. shadow 2. magnetic field  
3. ecosystem 4. predation.  
5. magnetic material. 6. yellow.  
B. 1. (d) 2. (c) 3. (a) 4. (b)

- 4 A. 1. mixture. 2. water.  
3. reflected. 4. internal.  
5. two poles. 6. homogeneous.  
B. 1. a- mosquito. b- internal parasite.  
2. a- drosera.  
b- Animals undergo camouflage.

### 9 Menofia - Shebeen El Koom Directorate.

- 1 1. rainbow. 2. kinetic - electric.  
3. inverted - minimized.  
4. magnetic attraction  
5. camouflage - mimicry.

- 2 A. 1. magnetic material  
2. mixture. 3. prey.  
4. solubility process. 5. ecosystem.  
6. magnetic field.  
B. 1. It seems black.  
2. forming a shadow.

- 3 A. 1. yellow 2. chocolate.  
3. faster than. 4. The needle deflects.  
B. 1. (c) 2. (a) 3. (d) 4. (b)

- 4 A. 1. Because it doesn't allow the light to pass through.  
2. Because it identifies the main four directions.  
B. 1. fleas. 2. increase.  
3. attract. 4. nitrogen.  
5. reflect.

### 10 Dakahlia - Dakahlia Educational Directorate.

- 1 A. 1. (c) 2. (a) 3. (b) 4. (c)  
B. 1. Because rain drops act as the prism which separates sunlight into seven spectrum colors.  
2. Because they are producers.  
3. Because if the host dies, the parasite loses its shelter and food.  
4. Because it consists of more than one type.

- 2 A. 1. (✓) 2. (X) 3. (X) 4. (X) 5. (✓)  
B. 1. commensalism 2. secondary color  
3. compass.  
4. (ags - liquid) mixture such as (soda water).

- 3 A. 1. temperature. 2. seven spectrum colors  
3. white light. 4. decomposer  
B. 1. Answer by yourself.  
2. a- magnetic attraction.  
b- filtration.  
c- evaporation.

- 4 A. Answer by yourself.  
B. Answer by yourself.

## 11 Behera - Kafr El Dawar E. Zone

1 Answer by yourself.

- 2 A. 1. electric 2. carton  
3. white 4. light refraction  
B. Answer by yourself.

- 3 A. 1. light reflection  
2. magnetic field  
3. solute  
4. ecosystem  
B. 1. Due to the absorption of red color which is reflected by the apple through the blue glass.  
2. To make self-defence against predation.

- 4 A. Answer by yourself.  
B. 1. compass.  
2. seperating funnel.

## 12 Suez - Directorate of Education.

- 1 A. 1. opaque 2. dynamo  
3. white 4. north pole  
5. decrease 6. dinosaur  
B. 1. separating funnel.  
2. prism.

- 2 A. 1. decomposer.  
2. secondary.  
3. compass  
4. solubility.  
5. mutualism.  
6. ecosystem.

B. Answer by yourself.

- 3 A. 1. tire. 2. inverted minimized.  
3. yellow. 4. reflection  
5. predator. 6. fungi  
B. 1. It takes a fixed direction to the north.  
2. Making a disturbance in the enviromental balance.

- 4 A. 1. (X) 2. (✓) 3. (X)  
B. 1. Because it reflects sunlight.  
2. Because it consists of more than one type of particles.  
C. Answer by yourself.

## 13 Luxor - Et Salam Language School

- 1 1. copper 2. distilled water  
3. salt 4. yellow  
5. straight 6. steel  
7. parasitism 8. smallpox disease

- 2 A. 1. opaque.  
2. decomposer.  
3. regular reflection.  
4. enviromental balance.  
5. magntic field.  
B. Answer by yourself.

- 3 A. 1. grinding - shaking.  
2. predation.  
3. electric - magnetic.  
4. soda water  
5. Answer by yourself.  
6. Answer by yourself.  
B. Answer by yourself.

- 4 A. 1. evaporation.  
2. magnetic attraction.  
3. filtration.  
B. 1. imbalance.  
2. elephantiasis.  
3. refracted.  
C. Answer by yourself.

## 14 Aswan - Aswan Educational Directorate

- 1 A. 1. b. 2. a. 3. c. 4. c. 5. b.  
B. 1. identifying the main four directions.  
2. converting the kinetic energy to electric energy.

- 2 A. 1. (X) 2. (✓) 3. (✓) 4. (X) 5. (✓)  
B. 1. Because it consists of more than one particle.  
2. Because it reflects sunlight.

- 3 A. 1. predation. 2. shadow.  
3. magnetic field. 4. white  
5. transparent.  
B. Answer by yourself.

- 4 A. 1. d. 2. e. 3. a. 4. b. 5. e.  
B. Answer by yourself.